

## PATENT ABSTRACTS OF JAPAN

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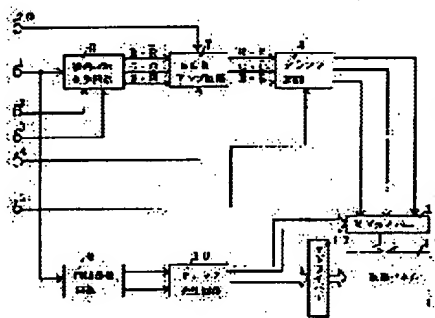
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## (54) DISPLAY CONTROL DEVICE FOR LIQUID CRYSTAL DISPLAY

## (57)Abstract:

PURPOSE: To improve visibility of liquid crystal under bright environment by controlling automatically both or either of brightness and contrast of a liquid crystal display screen based on operation of a brightness detecting sensor or manual switching.

CONSTITUTION: Brightness adjusting range can be set more wide than a conventional device and contrast adjusting, and a  $\gamma$  characteristic can be controlled externally by providing an input terminal 4 for a contrast control signal and an input terminal 20 of a  $\gamma$  control signal, in this display control device for liquid crystal display. That is, it is fundamentally considered seriously that a display screen is brightly set, and visibility is improved rather than accurate reproducibility of display, then, amplitude of a video signal is made large and contrast is made large, and a screen is made bright by setting a brightness setting point to a more bright point than conventional brightness. Further, concerning compensation of a  $\gamma$  characteristic relating to linearity of display brightness, a characteristic in which display contrast of an intermediate level is improved is attained even if fidelity of gradation in a white and a black levels are damaged.



## LEGAL STATUS

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